U.S. Serial No.: 10/021,294

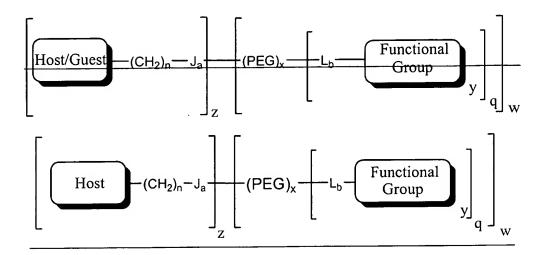
## IN THE CLAIMS:

- 1-4. (Cancelled)
- 5. (Currently Amended) A composition comprising:
- a cyclodextrin-containing polymer,
- a therapeutic agent, and
- a complexing agent, comprising:
  - at least one host/guest moiety at a terminus of the complexing agent that forms an inclusion complex with a host/guest moiety of said cyclodextrin-containing polymer, wherein the guest moiety is selected from adamantyl, naphthyl, cholesterol, and combinations thereof, and
  - at least one polymer portion that increases solubility and/or imparts stabilization relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone;

wherein the cyclodextrin-containing polymer, the therapeutic agent, and the complexing agent are separate molecules.

- 6. (Previously Presented) A composition of claim 5, wherein said therapeutic agent is selected from an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.
- 7. (Original) A composition of claim 6, wherein said therapeutic agent is a polynucleotide.
- 8-11. (Cancelled)
- 12. (Currently Amended) A composition of claim 5, wherein the complexing agent is a compound of the formula:

U.S. Serial No.: 10/021,294



wherein

$$J is -NH-, -C(=O)NH-CH_2)_{d^-}, -NH-C(=O)-(CH_2)_{d^-}, -CH_2SS-, -C(=O)O-(CH_2)_{e^-}O-P(=O)(O-CH_2)_{e^-}O-P($$

$$(CH_2)_{e^-}Y)O_{-}$$
, a peptide or polypeptide residue, or

-NH-(C=O)-CH(R<sup>1</sup>)-NH-(C=O)-CH(R<sup>1</sup>)-NH-;

Y is an additional host-guest functionality;

R<sup>1</sup> is -(CH<sub>2</sub>)-CO<sub>2</sub>H, an ester or salt thereof; or -(CH<sub>2</sub>)<sub>a</sub>-CONH<sub>2</sub>;

PEG is  $-O(CH_2CH_2O)_z$ -, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-(CH<sub>2</sub>)<sub>e</sub>-(C=O)-CH<sub>2</sub>-, -S(=O)<sub>2</sub>-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

n ranges from 0 to 6;

q ranges from 1 to 5;

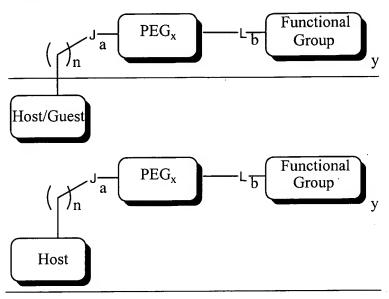
w ranges from 1 to 5;

U.S. Serial No.: 10/021,294

y is 1; and

x is 0 or 1.

13. (Currently Amended) A composition of claim 5, wherein the complexing agent is a compound of the formula:



wherein

$$\label{eq:condition} \text{J is -NH-, -C(=O)NH-CH$_2$_d-, -NH-C(=O)-(CH$_2$_d-, -CH$_2$SS-, -C(=O)O-(CH$_2$_e-O-P(=O)(O-CH$_2$_d-, -CH$_2$_d-, -CH$_2$_d$$

(CH<sub>2</sub>)<sub>e</sub>-Y)O-,  $\ddot{0}$ 

, a peptide or polypeptide residue, or

-NH-(C=O)-CH( $\mathbb{R}^1$ )-NH-(C=O)-CH( $\mathbb{R}^1$ )-NH-;

Y is an additional host-guest functionality;

 $R^1$  is  $-(CH_2)-CO_2H$ , an ester or salt thereof; or  $-(CH_2)_a-CONH_2$ ;

PEG is  $-O(CH_2CH_2O)_z$ , where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-(CH<sub>2</sub>)<sub>e</sub>-(C=O)-CH<sub>2</sub>-, -S(=O)<sub>2</sub>-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

U.S. Serial No.: 10/021,294

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b is 0 or 1;
d ranges from 0 to 6;
e ranges from 1 to 6;
n ranges from 0 to 6;
y is 1; and
x is 0 or 1.
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- 14. (Previously Presented) A composition of claim 5, wherein the complexing agent further comprises a group selected from a ligand, a nuclear localization signal, an endosomal release peptide, an endosomal release polymer, or a membrane permeabilization agent.
- 15. (Previously Presented) A composition of claim 5, wherein the polymer portion increases the solubility of the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.
- 16. (Previously Presented) A composition of claim 5, wherein the polymer portion stabilizes the composition under biological conditions relative to a composition of the cyclodextrincontaining polymer and therapeutic agent alone.
- 17. (Previously Presented) A composition of claim 5, wherein the complexing agent further comprises a therapeutic agent reversibly bound to the complexing agent.
- 18. (Previously Presented) A composition of claim 5, wherein the complexing agent further comprises a spacer group.
- 19-22. (Cancelled)
- 23. (Previously Presented) A composition of claim 5, wherein at least one polymer portion of the complexing agent comprises PEG or derivatives thereof.
- 24-26. (Cancelled)

U.S. Serial No.: 10/021,294

27. (Previously Presented) A composition of claim 5, wherein the cyclodextrin-containing polymer comprises one or more cyclodextrins in side chains of the cyclodextrin-containing polymer.

- 28. (Previously Presented) A composition of claim 5, wherein the cyclodextrin-containing polymer comprises a linear cyclodextrin-containing polymer wherein cyclodextrin moieties are present in the backbone of the polymer.
- 29. (Cancelled)
- 30. (Currently Amended) A composition comprising:
- a cyclodextrin-containing polymer,
- a therapeutic agent, and
- a complexing agent, comprising:
  - at least one functional group,
  - at least one host/guest moiety at a terminus of the complexing agent that forms an inclusion complex with a host/guest moiety of said cyclodextrin-containing polymer, wherein the guest moiety is selected from adamantyl, naphthyl, cholesterol, and combinations thereof, and

at least one polymeric spacer group;

wherein the cyclodextrin-containing polymer, the therapeutic agent, and the complexing agent are separate molecules.

- 31. (Previously Presented) A composition of claim 30, wherein said therapeutic agent is selected from an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.
- 32. (Previously Presented) A composition of claim 31, wherein said therapeutic agent is a polynucleotide.
- 33. (Cancelled)

U.S. Serial No.: 10/021,294

- 34. (Previously Presented) A composition of claim 30, wherein at least one spacer group of the complexing agent comprises PEG or derivatives thereof.
- 35. (Currently Amended) A composition of claim 34, wherein the complexing agent is a compound of the formula:

$$\begin{bmatrix} \text{Host/Guest} & \text{(CH}_2)_n & \text{J}_a \\ \end{bmatrix}_Z & \begin{bmatrix} \text{(PEG)}_x & \text{L}_b & \text{Functional} \\ \text{Group} \end{bmatrix}_y \end{bmatrix}_q \end{bmatrix}_w$$

wherein

$$\label{eq:condition} \text{$J$ is -NH-, -C(=O)NH-CH$_2$_d-, -NH-C(=O)-(CH$_2$_d-, -CH$_2$S-, -C(=O)O-(CH$_2$_e-O-P(=O)(O-CH$_2$_d-, -CH$_2$_d-, -CH$_2$_$$

, a peptide or polypeptide residue, or

-NH-(C=O)-CH(R<sup>1</sup>)-NH-(C=O)-CH(R<sup>1</sup>)-NH-;

Y is an additional host-guest functionality;

 $R^1$  is  $-(CH_2)-CO_2H$ , an ester or salt thereof; or  $-(CH_2)_a-CONH_2$ ;

PEG is  $-O(CH_2CH_2O)_z$ -, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-(CH<sub>2</sub>)<sub>e</sub>-(C=O)-CH<sub>2</sub>-, -S(=O)<sub>2</sub>-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

U.S. Serial No.: 10/021,294

e ranges from 1 to 6;

n ranges from 0 to 6;

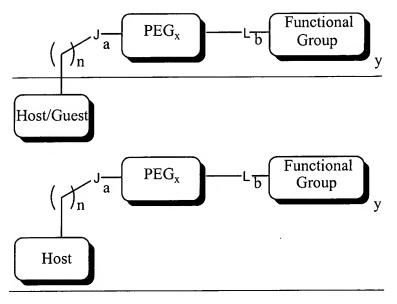
q ranges from 1 to 5;

w ranges from 1 to 5;

y is 1; and

x is 1.

## 36. (Currently Amended) A composition of claim 34, wherein the complexing agent is a compound of the formula:



wherein

$$\label{eq:condition} \text{J is -NH-, -C(=O)NH-CH$_2$_d-, -NH-C(=O)-(CH$_2$_d-, -CH$_2$S-, -C(=O)O-(CH$_2$_e-O-P(=O)(O-CH$_2$_d-, -CH$_2$_d-, -CH$_2$_d-$$

, a peptide or polypeptide residue, or

-NH-(C=O)-CH(R<sup>1</sup>)-NH-(C=O)-CH(R<sup>1</sup>)-NH-;

Y is an additional host-guest functionality;

 $R^1$  is  $-(CH_2)$ - $CO_2H$ , an ester or salt thereof; or  $-(CH_2)_a$ - $CONH_2$ ;

U.S. Serial No.: 10/021,294

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PEG is -O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>z</sub>-, where z varies from 2 to 500;

L is H, -NH, -NH-(C=O)-(CH<sub>2</sub>)<sub>e</sub>-(C=O)-CH<sub>2</sub>-, -S(=O)<sub>2</sub>-HC=CH-, -SS-, -C(=O)O-, or a carbohydrate residue;

a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

n ranges from 0 to 6;

y is 1; and
x is 1.
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- 37. (Previously Presented) A composition of claim 30, wherein at least one functional group includes a group selected from a ligand, a nuclear localization signal, an endosomal release peptide, an endosomal release polymer, or a membrane permeabilization agent.
- 38. (Previously Presented) A composition of claim 30, wherein at least one functional group includes a moiety that increases the solubility of the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.
- 39. (Previously Presented) A composition of claim 30, wherein at least one functional group includes a moiety that stabilizes the composition under biological conditions relative to a composition of the cyclodextrin-containing polymer and therapeutic agent alone.
- 40. (Previously Presented) A composition of claim 30, wherein at least one functional group includes a therapeutic agent reversibly bound to the complexing agent.
- 41. (Previously Presented) A composition of claim 30, wherein the cyclodextrin-containing polymer comprises one or more cyclodextrins in side chains of the cyclodextrin-containing polymer.

U.S. Serial No.: 10/021,294

42. (Previously Presented) A composition of claim 30, wherein the cyclodextrin-containing polymer comprises a linear cyclodextrin-containing polymer wherein cyclodextrin moieties are present in the backbone of the polymer.

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